

CLAIMS

1. A method of making a lens array comprising the steps of:

forming a resin-molded piece which includes a plurality of
5 lenses each having a convex lens surface, and a holder portion for
holding the plurality of lenses;

applying a coating to the holder portion so as to surround
said each lens surface;

melting the applied coating; and

10 solidifying the melted coating.

2. The method according to claim 1, wherein the plurality of lenses
are integral with the holder portion.

3. The method according to claim 1, wherein the coating comprises
15 solid ink.

4. The method according to claim 1, wherein the coating is applied
by an ink jet printer.

5. The method according to claim 1, further comprising the step
of forming a plurality of recesses in the holder portion for
partitioning the plurality of lenses.

6. The method according to claim 5, further comprising the step
25 of forming a light-shielding layer on wall surfaces defining the
plurality of recesses.

7. The method according to claim 1, further comprising the step of dividing the resin-molded piece into a plurality of individual lens arrays.

5 8. A method of performing light shielding treatment for a transparent member having a flat surface at least partially and a projection rising in the flat surface, the method comprising the steps of:

10 applying a black material to the flat surface so as to surround the projection;

melting the black material so that the black material partially cover the projection; and

solidifying the melted black material.

15 9. The method according to claim 8, wherein the applied black material constitutes a closed loop which surrounds the projection.

20 10. The method according to claim 8, wherein the applied black material constitutes a plurality of arc segments spaced from each other.

11. A lens array comprising:

a plurality of lenses each of which has a convex lens surface;

a holder portion for holding the lenses; and

25 a light-shielding member provided at the holder portion;

wherein the light-shielding member overlaps a circumferentially peripheral portion of each lens surface.

12. The lens array according to claim 11, wherein the light-shielding member includes a first light-shielding layer and a second light-shielding layer which are made of different materials,
5 the first light-shielding layer overlapping the circumferentially peripheral portion of each lens surface, the second light-shielding layer being formed at the holder portion so as to surround the first light-shielding layer.